

## A. CLASSIFICATION OF SUBJECT MATTER

IPC 6 C12N15/31 C12N15/74 C07K14/315 A61K39/09

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 6 C07K

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	INT IMMUNOL, AUG 1993, 5 (8) P869-75, ENGLAND, XP002015579 HARTWIG UF ET AL: "Mutations affecting MHC class II binding of the superantigen streptococcal erythrogenic toxin A." see the whole document ---	1-3,5-7, 9-11,15, 16, 18-21,25
A	INFECT IMMUN, JUN 1989, 57 (6) P1865-7, UNITED STATES, XP002015580 SCHLIEVERT PM ET AL: "Group A streptococcal pyrogenic exotoxin (scarlet fever toxin) type A and blastogen A are the same protein." see the whole document --- -/--	1

☒ Further documents are listed in the continuation of box C.☒ Patent family members are listed in annex.

## \* Special categories of cited documents:

- "A" document defining the general state of the art which is not considered to be of particular relevance
- "E" earlier document but published on or after the international filing date
- "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- "O" document referring to an oral disclosure, use, exhibition or other means
- "P" document published prior to the international filing date but later than the priority date claimed

- "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art
- "Z" document member of the same patent family

Date of the actual completion of the international search

10 October 1996

Date of mailing of the international search report

23.10.96

Name and mailing address of the ISA

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	INFECT IMMUN, MAR 1995, 63 (3) P994-1003, UNITED STATES, XP002015581 MUSSEY JM ET AL: "Genetic diversity and relationships among Streptococcus pyogenes strains expressing serotype M1 protein: recent intercontinental spread of a subclone causing episodes of invasive disease." see the whole document -----	1
A	WO,A,85 00832 (UNIV ROCKEFELLER ;UNIV EMORY (US)) 28 February 1985 see claims 1-34 -----	6-17

# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US 96/ 10252

## Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☒ Claims Nos.: 22-24  
because they relate to subject matter not required to be searched by this Authority, namely:  
Remark: Although claims 22-24 are directed to a method of treatment of the human/animal body the search has been carried out and based on the alleged effects of the compound/composition.
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

## Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
WO-A-8500832	28-02-85	US-A- 4784948	15-11-88
		AU-B- 574385	07-07-88
		AU-A- 3316184	12-03-85
		DE-A- 3485267	19-12-91
		EP-A- 0152468	28-08-85
		JP-A- 6233693	23-08-94
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